

Upper Air Reanalysis

Module 7

Objective

Given computer analyzed upper air weather charts, reanalyze the charts to the satisfaction of the evaluator as indicated by a Go/No Go checklist.

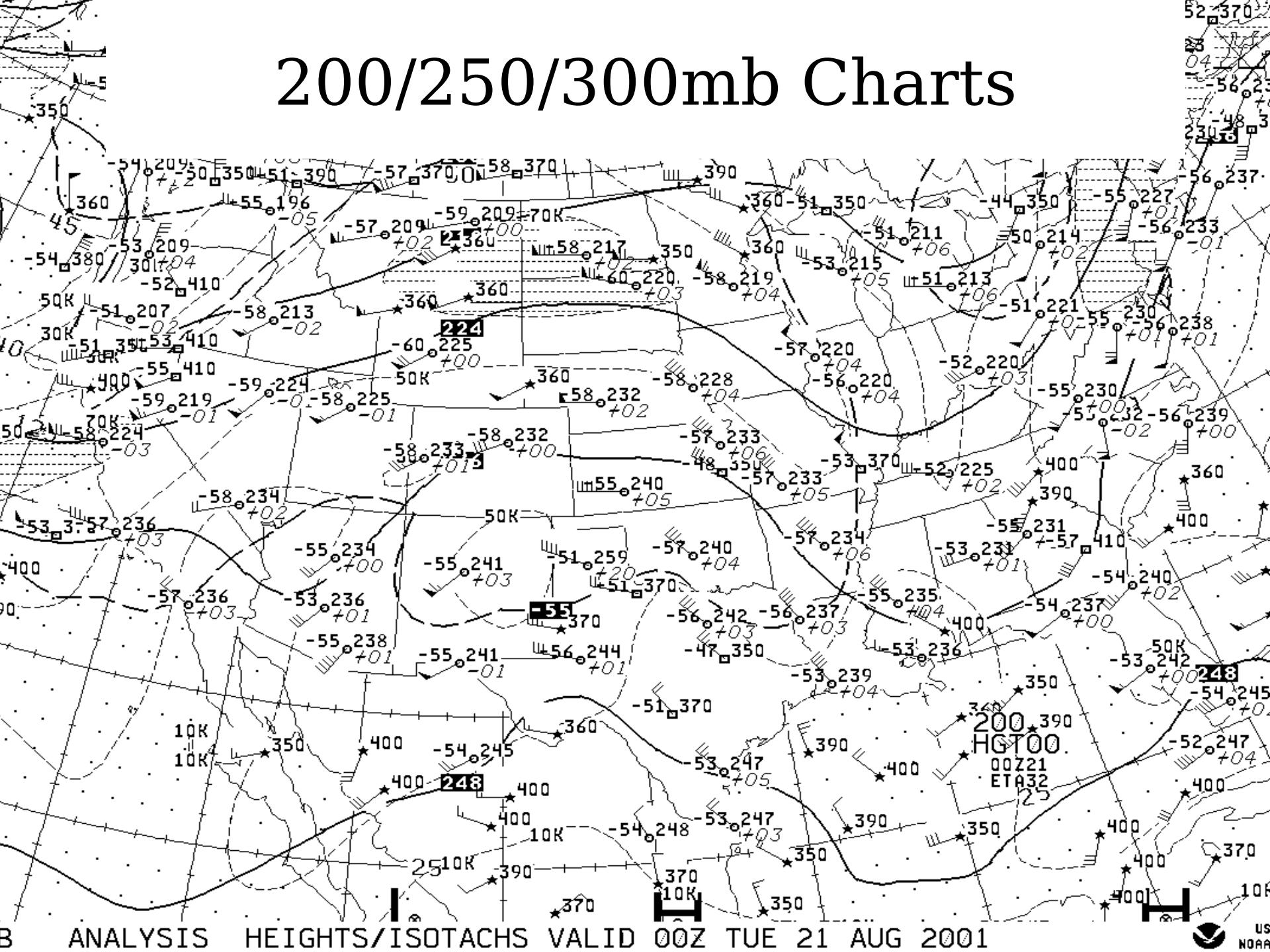
Reanalysis

- General Information
 - Why reanalyze?
 - Benefits

Reanalysis Process

- Pre-analysis
- Reanalysis

200/250/300mb Charts



8

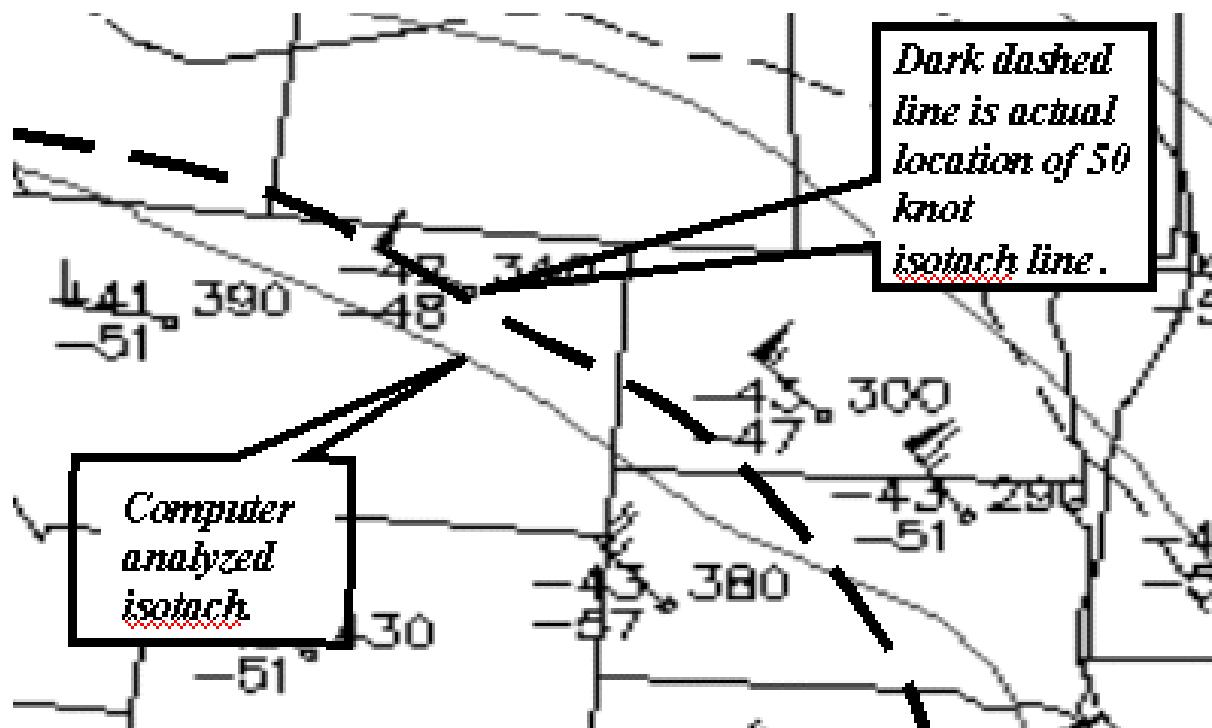
ANALYSIS

HEIGHTS/ISOTACHS

VALID 00Z TUE 21 AUG 2001

U
NOAA

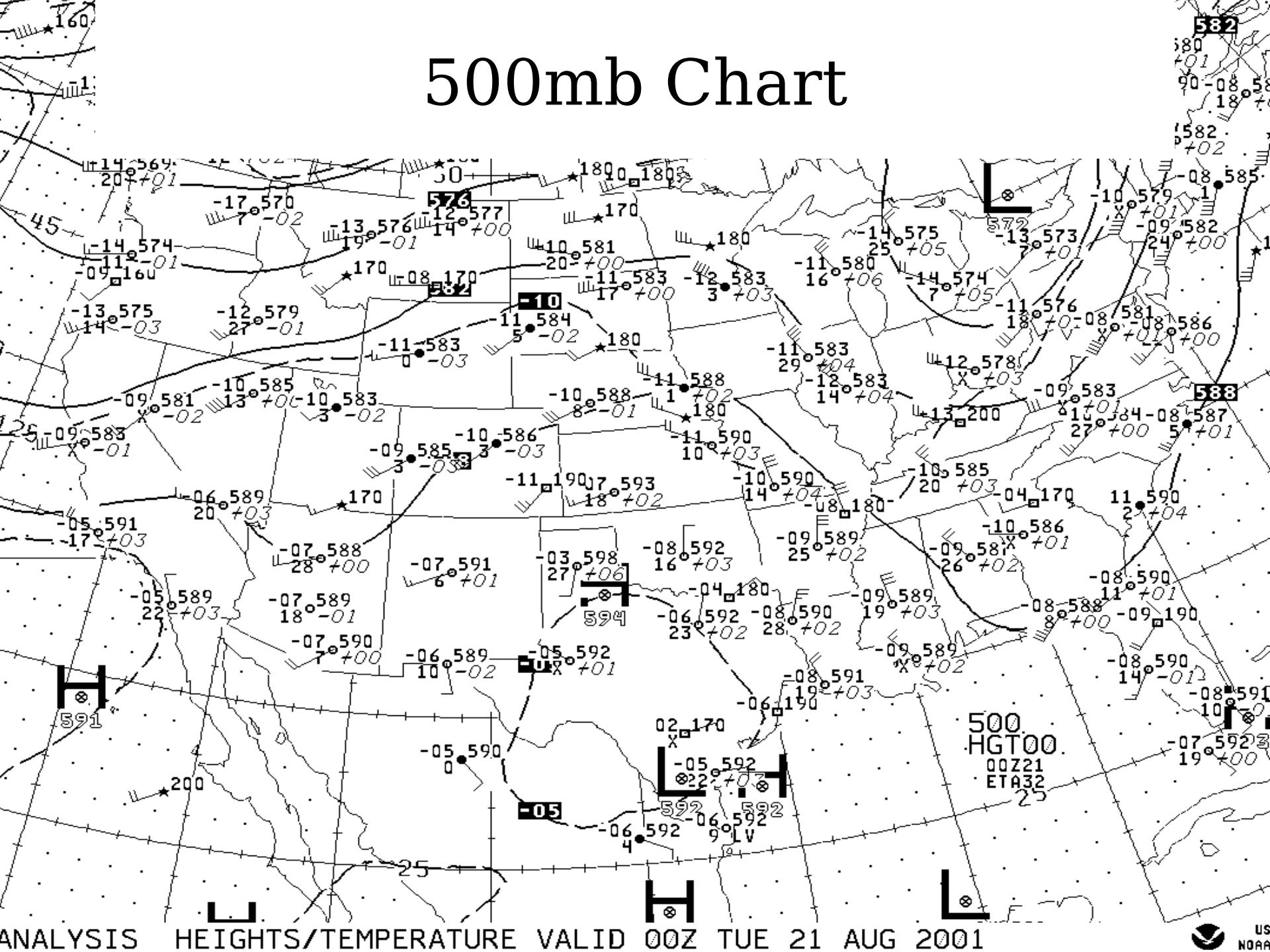
Computer Isotach Analysis Vs. Reanalysis



500, 700, 850 Mb Charts

- Contours.
- Troughs and Ridges.
- Reanalyze for height centers.
- Mislabeled.
- Isotherms.
Module 7, Upper Air Reanalysis

500mb Chart



ANALYSIS

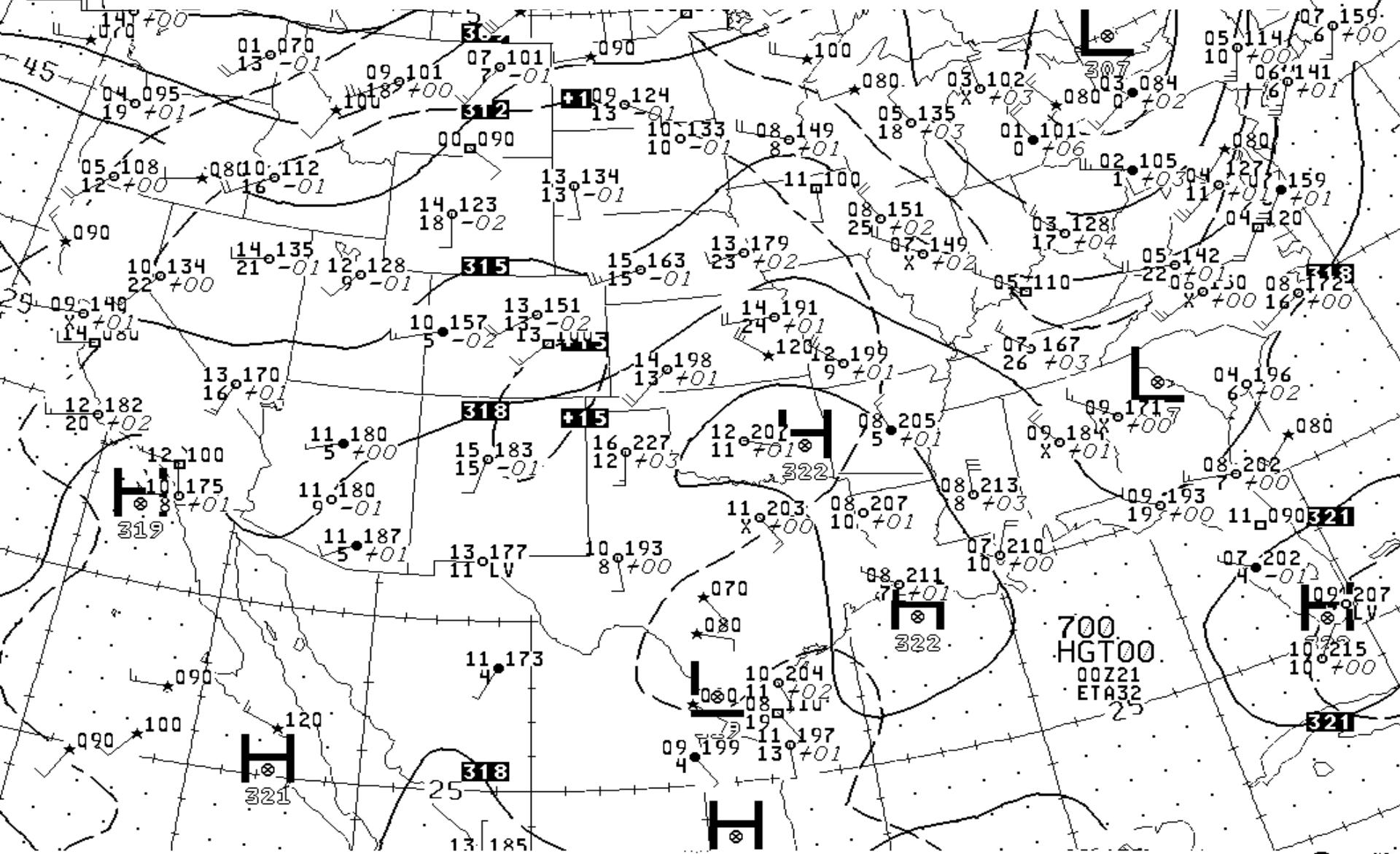
HEIGHTS/TEMPER

RATURE VALID 00Z TUE

21 AUG 2001



700mb Chart

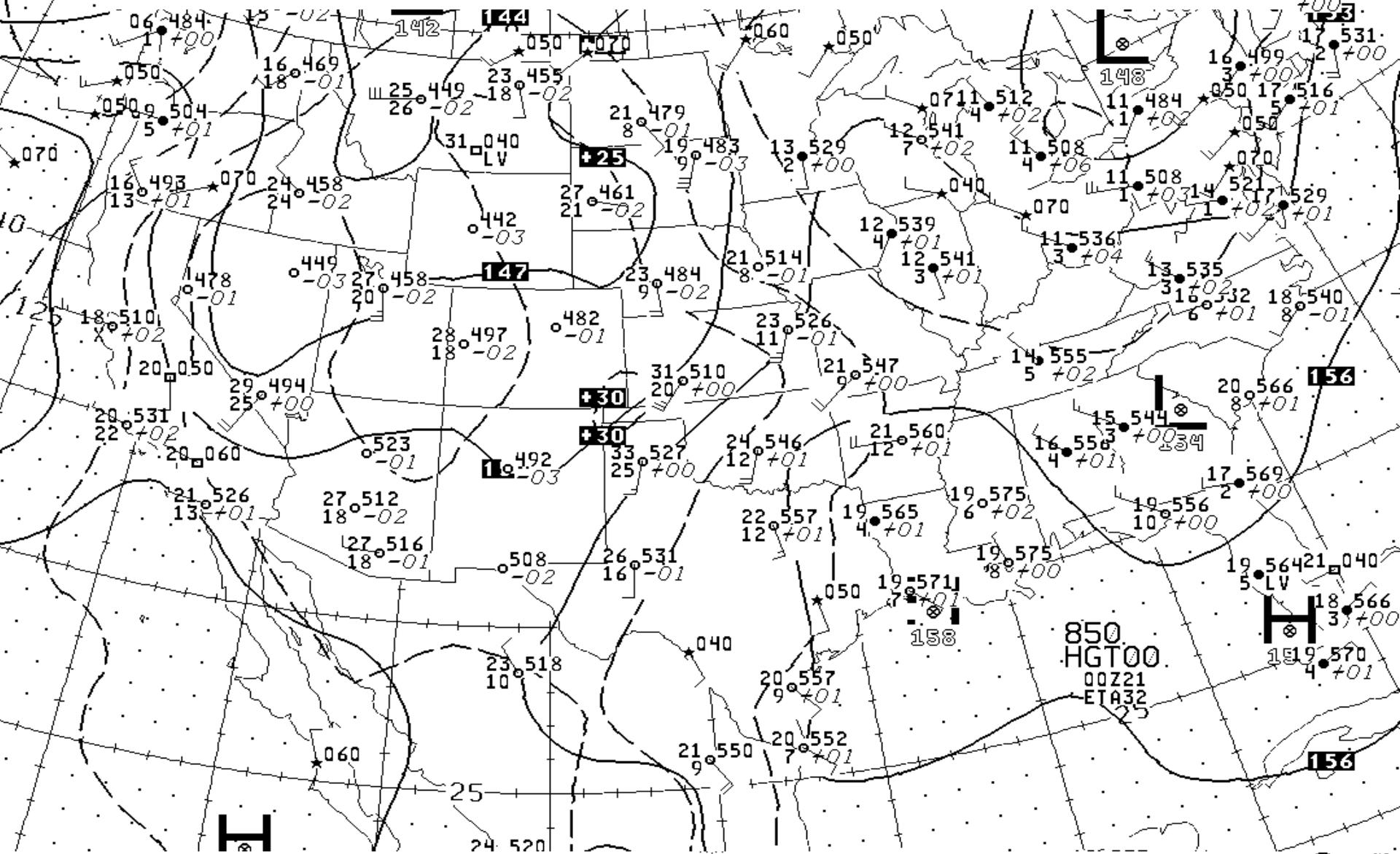


ANALYSIS

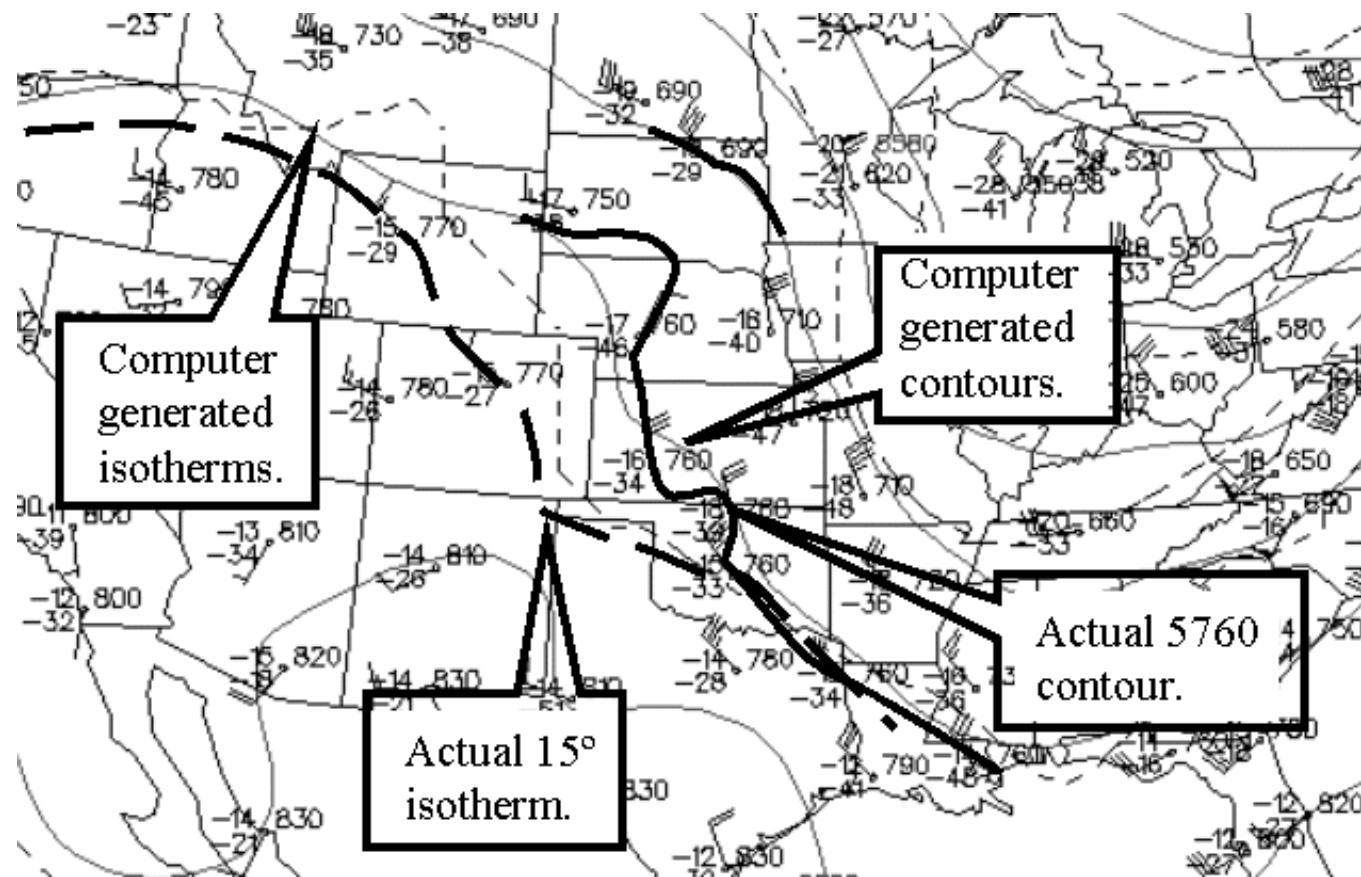
HEIGHTS/TEMPERATURE VALID 00Z TUE 21 AUG 2001



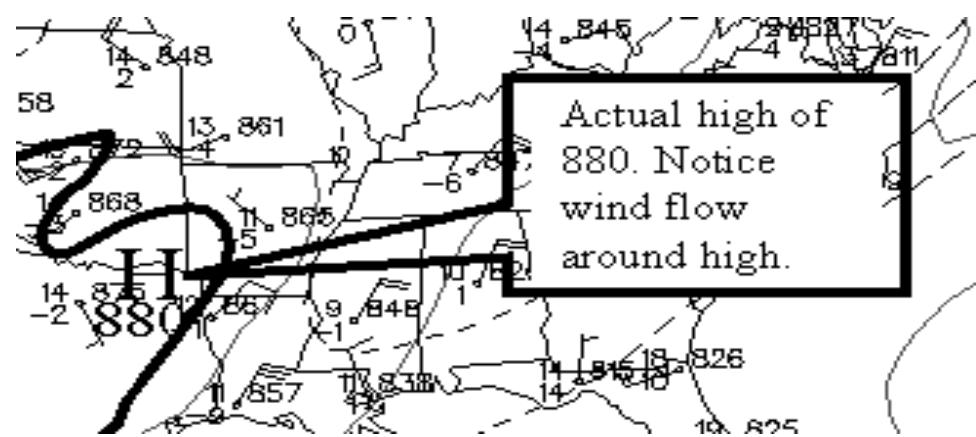
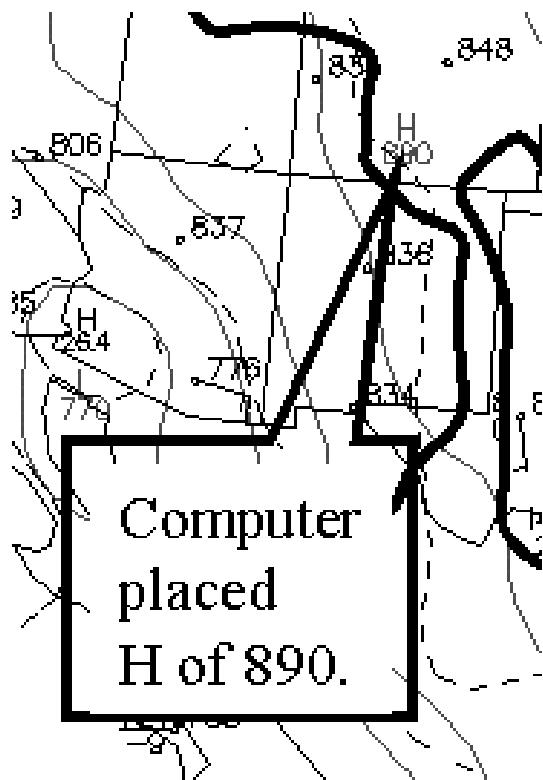
850mb Chart



Contour and Isotherm Examples



Two Examples of Center Placement



Post Analysis

- Post analysis
- Harden in reanalysis

Common Errors

- Height and thermal patterns.
- Height centers
 - Centers stamped outside wind flow.
 - Center not placed at correct height value.
 - Center not labeled correctly.
- Contours
 - Incorrect interpolation
 - Kinked or crossed contours

Module 7, Upper Air Reanalysis

Conclusion

Any Questions?